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(54) Title: ACTIVE SPECIFIC IMMUNOTHERAPY OF CANCER METASTASIS

(57) Abstract: The present invention provides for the treatment of a subject with occult brain metastasis. The treatment relies on administering to the subject a composition comprising an immunomodulatory polypeptide and a baculovirus-insect cell preparation. This composition has a unique ability to generate an anti-tumor immune response that is able to cross the blood-brain barrier.

WO 2004/037182 A3

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07K 1/00; C07H 21/02

US CL : 530/350; 536/23.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 530/350; 536/23.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/92484 (Fedler et al.) 06 Dec. 2001(01.12.2001), page 3, lines 10-27	1-42
X	WO 98/25574 (Houghton et al.) 18 June 1998 (18.06.1998), p. 3 lines 27-31 to p.4 line 1; p. 4 lines 19-31 to p. 5 lines 1-4; figure 1; figure 2.	1-16, 23-35, and 38-42
X	Dong et al. Insect Cells Transduced with a Baculoviral Vector Encoding Murine Interferon-beta as a Novel Therapeutic Cancer Vaccine. American Assoc. for Cancer Res. March 2001, Vol 42, page 817 (abstract #4384).	1-15, 23-34, and 38-42
X	Ozawa et al. Suppression of Orthotopic Murine Colon Cancer and Liver Metastasis by a Baculoviral Vector System-Mediated Interferon-beta Gene Therapy. American Assoc. for Cancer Res. March 2001, Vol 42, page 818 (abstract #4390).	1-15, 23-34, and 38-42
X	US 6,224,882 B1 (Smith et al.) 01 May 2001 (01.05.2001), column 6, lines 22-51.	1-3, 5-6, 8-16, 18-26, 28, 30-35, and 37-42
Y		1-42
Y	Colombo et al., Immunotherapy I: Cytokine gene transfer strategies, Cancer and Metastasis Reviews, Vol 16, pages 421-432, especially pages 422 and 428-429.	1-15, 23-34, and 38-42

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A ✓	Ozawa et al., Regression of primary murine colon cancer and occult liver metastasis by intralesional injection of lyophilized preparation of insect cells producing murine interferon-beta, Int. J. of Oncology, 2003, Vol 22, pages 977-984	
A ✓	Lu et al., Active Specific Immunotherapy against Occult Brain Metastasis, Cancer Research, March 2003, Vol 63, pages 1345-1350	